

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE TRAFFIC SIGNAL AT MD 212 (POWDER MILL ROAD) AND FLORAL DRIVE IN PRINCE GEORGE'S COUNTY. APS, CPS AND ADA SIDEWALK RAMPS WILL BE INSTALLED ACROSS THE SOUTH AND WEST LEGS. MD 212 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL CONTINUE TO OPERATE IN A NEMA SIX-PHASE, FULL-TRAFFIC-ACTUATED MODE. THE EXISTING MAINLINE EXCLUSIVE/PERMISSIVE, SOUTHBOUND RIGHT-TURN OVERLAP AND SIDE STREET CONCURRENT PHASES WILL REMAIN. THE ALTERNATE SIDE STREET PEDESTRIAN PHASE WILL REMAIN ACROSS THE WEST LEG AND A CONCURRENT MAINLINE PEDESTRIAN PHASE WILL BE ADDED ACROSS THE SOUTH LEG.

CONTROLLER REQUIREMENTS

THE EXISTING BASE MOUNTED CABINET, CONTROLLER, EQUIPMENT AND ASSOCIATED HARNESSES SHALL REMAIN. THE SHA SIGNAL SHOP WILL INSTALL ONE (1) 2 WIRE CENTRAL CONTROL UNIT WITHIN THE CABINET.

APS WILL FUNCTION AS FOLLOWS:

FOR POWDER MILL ROAD

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS POWDER MILL AT FLORAL".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

FOR FLORAL DRIVE

- A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS FLORAL AT POWDER MILL".
- B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.

THE CONTACT PERSONS FOR DISTRICT #3 / OOTS ARE AS FOLLOWS:

District #3

Mr. Brian Young
Assistant District Engineer - Traffic
Phone: 301-513-7358

Mr. Augie Reblish
District Utility Engineer
Phone: 301-513-7350

Mr. Wayne Mowdy
Assistant District Engineer - Maintenance
Phone: 301-513-7304

Mr. Kevin Nowak
Assistant District Engineer - Construction
Phone: 301-513-7336

Office Of Traffic & Safety

Mr. Richard L. Daff Sr.
Chief, Traffic Operations Division
Phone: 410-787-7630

Mr. Robert Snyder
Assistant Division Chief, Traffic Operations
410-787-7630

Mr. Edward Rodenhizer
Team Leader Signal Operations
Phone: 410-787-7650

Mr. Eugene Bailey
Team Leader Sign Operations
410-787-7670

The Power Company Representative is:

Baltimore Gas & Electric
7317 Parkway Drive South
Hanover, MD 21076
Phone: 410-859-9062

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO.	QUANTITY	DESCRIPTION
9571	4 SF	[UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGNS
		2 EA - R10-3(1) (9 IN. x 15 IN.) "PUSH BUTTON TO CROSS POWDER MILL ROAD"
		2 EA - R10-3(1) (9 IN. x 15 IN.) "PUSH BUTTON TO CROSS FLORAL DRIVE"

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

ITEM NO.	QUANTITY	DESCRIPTION
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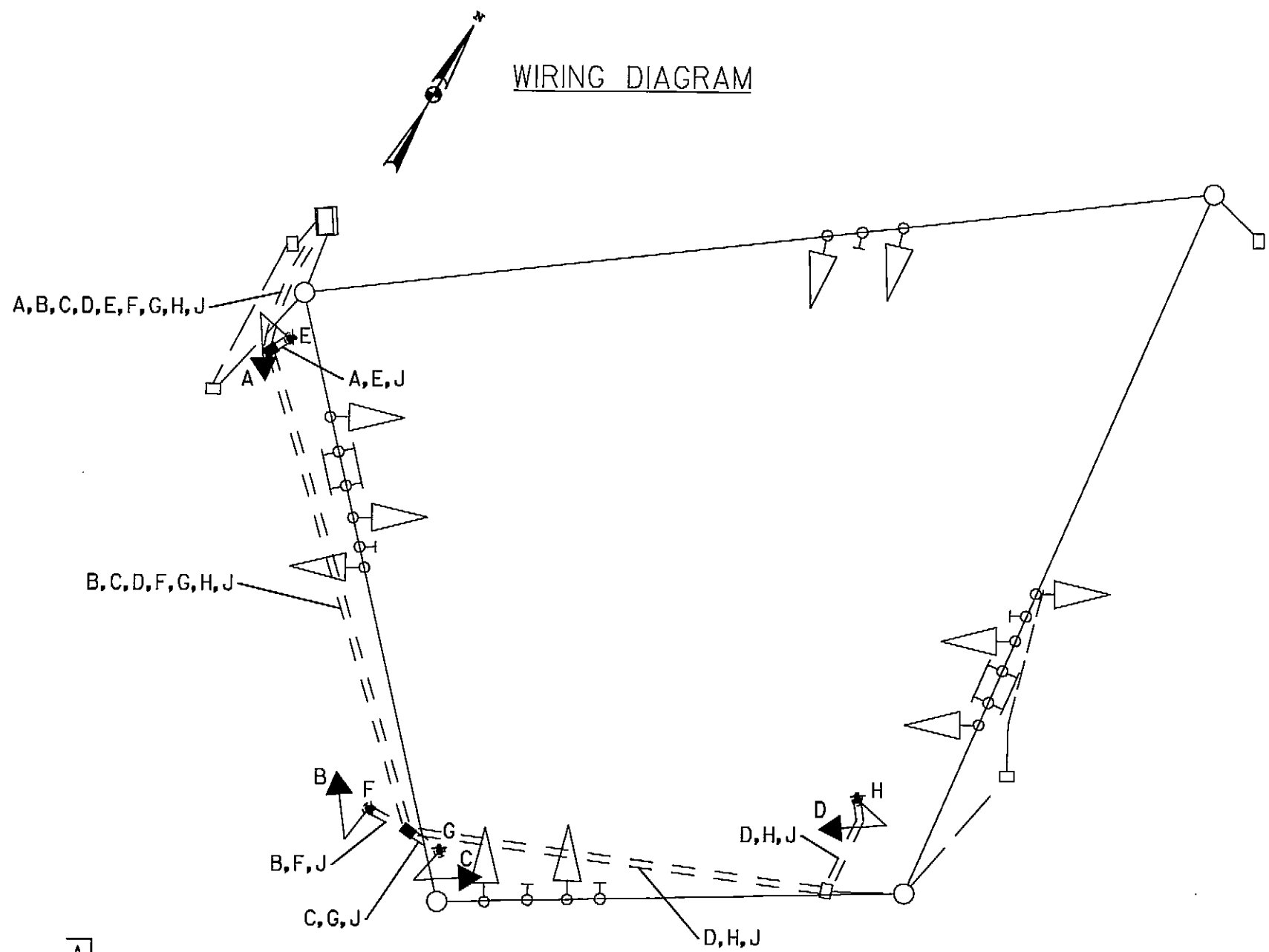
NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR

EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC PER ASSIGNMENT
2002	2 CY	TEST PIT EXCAVATION
6002	75 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6004	650 SF	5 INCH CONCRETE SIDEWALK
8002	1 EA	2 WIRE CENTRAL CONTROL UNIT
8007	4 EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8009	1 EA	CONDUIT BEND IN EXISTING FOUNDATION - ANY SIZE
8020	4 EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
8028	4 EA	PED POLE (ANY SIZE)
8029	1 EA	REMOVE & DISPOSE OF MATERIAL AND EQUIPMENT (PER ASSIGNMENT)
8041	140 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED
8043	50 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8045	65 SF	DETECTABLE WARNING SURFACES
8048	200 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8054	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8062	425 LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8064	450 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

WIRING DIAGRAM



A, B, C, D, E, F, G, H, J
ELECTRICAL CABLE - 5
CONDUCTOR (NO. 14 AWG)

E, F, G, H
ELECTRICAL CABLE - 2
CONDUCTOR (NO. 14 AWG)

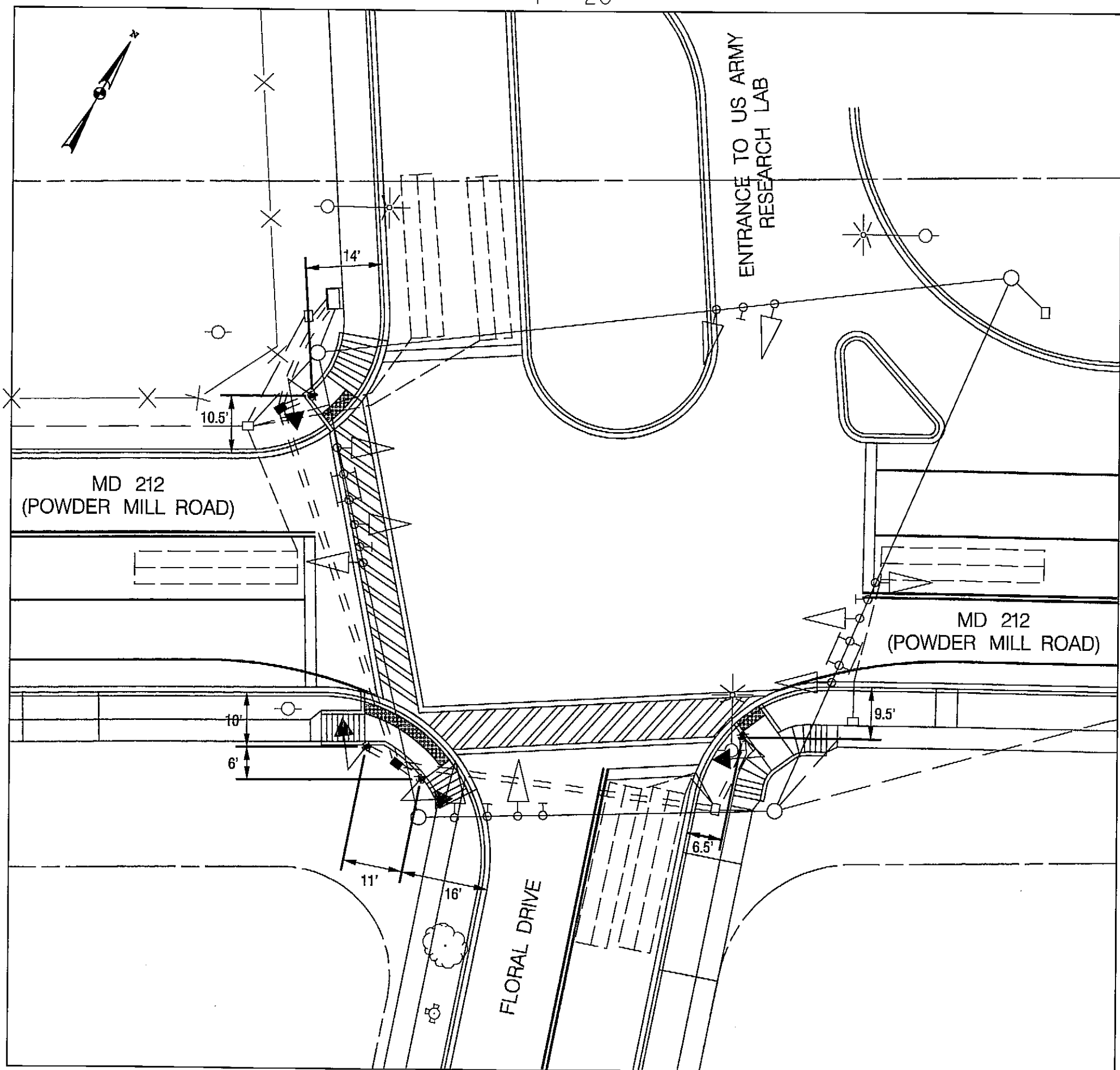
J - NO. 6 AWG STRANDED BARE COPPER GROUND WIRE

EXISTING GROUND ROD - 3/4
IN. DIAMETER x 10 FT. LENGTH

PROPOSED GROUND ROD - 3/4
IN. DIAMETER x 10 FT. LENGTH

PROPOSED APS PEDESTAL POLE LOCATION DETAIL

1" = 20'



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
PHASE 1 AND 5	G-R	G-R	R	G-R	G-R	R	R	R	R	G-R	DW	DW	DW	DW
PHASE 1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6														
PHASE 1 AND 6	G-R	G-R	G	R	R	R	R	R	R	G-R	DW	DW	DW	DW
PHASE 1 CHANGE	G-R	G-R	G	R	R	R	R	R	R	G-R	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	G-R	G-R	G	R	R	R	R	DW	DW	DW	DW
PHASE 5 CHANGE	R	R	R	G-R	G-R	G	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	W	W	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	FLDW	FLDW	DW	DW
PHASE 2 AND 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	DW	DW	DW	DW
PHASE 4 AND 8	R	R	R	R	R	R	G	G	G	G	DW	DW	DW	DW
PHASE 4 AND 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
PHASE 4 ALT.	R	R	R	R	R	R	G	G	G	G	DW	DW	WK	WK
PED CLEARANCE	R	R	R	R	R	R	G	G	G	G	DW	DW	FLDW	FLDW
PHASE 4 ALT. CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

TOD NO: XX321-01
SHA NO: PG749A51/B51
MD 212 @ FLORAL DR



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 212 (POWDER MILL ROAD) AT FLORAL DRIVE
HILLDALE, MARYLAND

GENERAL INFORMATION

SCALE: NONE ADVERTISED DATE: 03/20/09 CONTRACT NO.: XX3215185

DESIGNED BY: SDY COUNTY: PRINCE GEORGE'S

DRAWN BY: SDY LOGMILE: 16021205.62

CHECKED BY: DD TMS NO.: J387

F.A.P. NO.: TOD NO.:

TS NO. 703D-GI DRAWING SG-02 OF 02 SHEET NO. 2 OF 2